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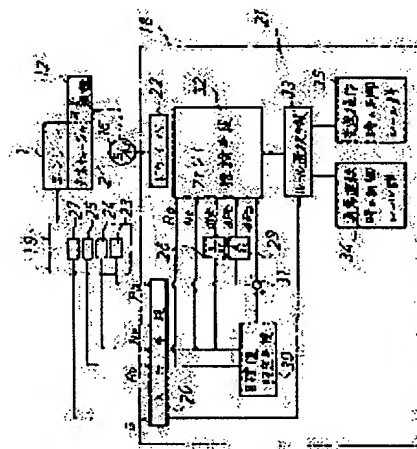
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## (54) CONTROLLER FOR VARIABLE CAPACITY TYPE TURBOCHARGER

(57)Abstract:

PURPOSE: To improve the fuel consumption and acceleration responsiveness by obtaining the optimum opening degree of a varying mechanism on the basis of detection output of a sensor group and the rule accommodated into a knowledge base and controlling the opening degree of the varying mechanism on the basis of the result of the estimation.

CONSTITUTION: The opening degree of a nozzle 12 for varying the flows rate and pressure of the exhaust gas which flows into the turbine wheel 6 of a variable turbocharger 2 is adjusted by a stepping motor 16 controlled by a controller 18 according to the engine operation state. A plurality of knowledge bases 34 and 35 into which the rule of the opening degree of a nozzle which corresponds to the engine operation state detected by a sensor group 19 is accommodated are installed into the controller 18. Further, a fuzzy estimation means 32 for fuzzy-estimating the optimum opening degree of the nozzle on the bases of the outputs of the sensor group 19 and the rule selected by a rule selecting means 33 is installed, and the step motor 6 is drive-controlled according to the result of the estimation.



## LEGAL STATUS

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